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The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. In an appliance with a relatively stationary component and a rotatable vessel for holding a supply of material, a method comprising:

charging said vessel with said supply of material;

rotating said vessel about an axis;

rapidly accelerating said rotation of said vessel;

determining an amount of energy with which said vessel has engaged said relatively stationary part following a start of said rapid acceleration;

comparing said amount of energy with a predetermined value; and sending a signal indicative of an unbalance condition if said amount of energy exceeds said predetermined value

- 2. The method of claim 1, wherein said appliance is an automatic washing machine.
- 3. The method of claim 2, wherein said washing machine is a vertical axis washer.
- 4. The method of claim 2, wherein said washing machine is a horizontal axis washer.

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- 5. The method of claim 1, wherein said appliance is a clothes treating appliance and said material comprises a fabric load.
- 6. The method of claim 1, wherein said relatively stationary component comprises a cabinet of said appliance.
- 7. The method of claim 1, wherein said step of determining an amount of energy comprises rotating said vessel with an electric motor, measuring a current supplied to said motor, isolating a frequency of said current relating to said engagement of said vessel with said relatively stationary part and generating a curve representing said frequency, comparing said frequency with a curve representing a reference motor current, integrating areas above said reference curve within said engagement curve, and accumulating said areas for a predetermined time.
- 8. The method of claim 7, wherein said step of comparing comprises comparing said accumulated area value with a predetermined threshold value.
 - 9. An appliance comprising:

a vessel mounted for rotation about an axis, configured to receive a supply of material and arranged relative to a relatively stationary part of said appliance whereby said vessel will engage said relatively stationary part in a severe unbalance loading condition of said material in said vessel while said vessel is rotating;

a control arranged and configured to rapidly accelerate a rotation of said vessel, determine an amount of energy with which said vessel has engaged said relatively stationary

part, compare said amount of energy with a predetermined value, and send a signal indicative of an unbalance condition if said amount of energy exceeds said predetermined value.

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- 10. An appliance according to claim 9, wherein said appliance is an automatic washing machine.
- 11. An appliance according to claim 10, wherein said washing machine is a vertical axis washer.
- 12. An appliance according to claim 10, wherein said washing machine is a horizontal axis washer.
- 13. An appliance according to claim 9, wherein said appliance is a clothes treating appliance and said material comprises a fabric load.
- 14. An appliance according to claim 9, wherein said relatively stationary component comprises a cabinet of said appliance.
- 15. An appliance according to claim 9, including an electric motor drivingly connected to said rotatable vessel.
- 16. An appliance according to claim 15, wherein said electric motor comprises a controlled induction motor and an inverter is provided in the control connected to the motor,

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said control further comprising a current measuring device connected to a dc bus of said inverter.

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- 17. An appliance according to claim 16, wherein said current measuring device provides an output signal representative of the current used by said motor, said control further including a digital filter connected to receive said output signal, said digital filter including a running average algorithm and providing an output representative of an average current used by said motor.
- 18. An appliance according to claim 9, wherein said signal comprises one of an audible and visible signal to a user.
- 19. An appliance according to claim 9, wherein said signal comprises an electrical signal transmitted to a further part of said control.
- 20. An appliance having a rotatable vessel configured to receive a supply of material mounted within a relatively stationary housing, said vessel rotatable about an axis and said vessel being mounted in a fashion such that it is movable relative to said housing in a direction perpendicular to said axis, comprising:
 - an electrical motor drivingly connected to said rotatable vessel,
- a control operatively connected to said motor and configured to rapidly accelerate a rotation of said vessel through operation of said motor, determine an amount of energy with which said vessel has engaged said relatively stationary part as reflected by a characteristic of electrical current drawn by said motor, compare said amount of energy with a predetermined

value, and send a signal indicative of an unbalance condition if said amount of energy exceeds said predetermined value.